Al-Farabi Kazakh National University

Class 12. Speaking and listening. Audio short conversations and lectures on medical item.

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1.What are the Epidemiological Studies?

https://www.youtube.com/watch?v=Jd3gFT0-C4s

Questions:

1. What is a study?
2. What are the steps of a study?
3. What are types of study?
4. What are features, advantages and disadvantages of every study?

Ecological, case series, cross –sectional studies, case-control study, cohort study, Randomized controlled trial, systematic review and meta-analysis?

Risk and How to use a Risk Matrix

1. Risk and How to use a Risk Matrix

https://www.youtube.com/watch?v=-E-jfcoR2W0

Questions:
1. What risk is?
2. How to use risk matrix?
3. Scenarios of risk?
4. What is Matrix?
5. Different types of risk matrices? High likelihood or low likelihood?
6. Consequences of risk? Low and High?

Infectious Diseases - An Introduction

3. Infectious Diseases. Oveview.
https://www.youtube.com/watch?v=9axOFtPqS0c&t=115s

Questions:
1.What are Infectious Diseases?
2.Why Infectious Diseases are a Global Problem? Leading Infections?
3. What happens with Infection?
2. Infectious Disease terms? Infection period, Infectious agent, Case –fatality rate, Basic Reproductive Rate, Secondary Attack Rate?
3. What type of Infectious Diseases?
Zoonotic Diseases, Emerging Infectious Diseases, Neglected Tropical Diseases, Vector-borne Diseases .

Outbreak Investigation

4. Outbreak Investigation - a step by step approach
https://www.youtube.com/watch?v=kUlKRIMxpZQ

Questions:

1. What is an outbreak investigation? Cases, time
2. Outbreak detection? Passive, active, sentinel and syndromic surveillance, and other
3. Outbreak investigation? Systematic steps: confirm, describe, determine cause and control

Confirm: is there an outbreak, baseline level of disease, compare with the current cases, increased testing? Lab error? Increase in population?, verify diagnosis (clinical and lab findings), control and confirm.

Describe:

1.who is case: case definition (time, place, person, clinical, lab)
2.all cases found: systematically (questionary, visits)
3. describe cases: time (development of outbreak, using curve), person (age, sex, occupation, ethnicity), place (geographical, cluster, mapping tools, Geographic Information systems GIS)

Determine cause:

Hypothesis, test (analytical studies: factors, microbiological information)

Control: transmission pathways (agent, hos, environment), behavioral intervention, vaccination, medication, environmental measures, infection control, health education)

Communication

Viruses and Bacteria: What's the difference and who cares anyway?

5. Viruses and Bacteria: What's the difference and who cares anyway? - Plain and Simple
https://www.youtube.com/watch?v=O7iaPos8a90

Bill Gates about new epidemics

6. Bill Gates about new epidemics
https://www.youtube.com/watch?v=6Af6b_wyiwI

Discussion.

References

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